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ABSTRACT

Summaries of papers and sketches of the ideas (presented at a conference) cover decisions to modernize or replace school buildings; options in improving the school and the educational process; interior design suggestions; systems approach for additions; educational finance; an air structure over the University of Minnesota statium; vocational education facilities; and the need for a flexible and modern curriculum. (Author/MLF)

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MODERNIZING EDUCATIONAL FACILITIES-

A SKETCHBOOK SUMMARY OF CONFERENCES PRESENTED BY....

THE SCHOOL PLANNING LABORATORY
COLLEGE OF EDUCATION
THE UNIVERSITY OF TENNESSEE
KNOXVILLE, TENNESSEE

EA 005 476

..... A CIRCUIT RIDING,
FLY IN
SERIES
OF
CONFERENCES.....

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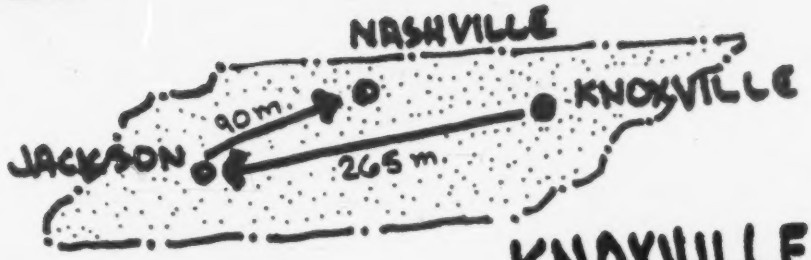

March 13, 1973 ..... KNOXVILLE
14, 1973 ..... JACKSON
15, 1973 ..... NASHVILLE

CONFERENCE SCHEDULE –

- 'ORGANIZATION OF REMODELING: WHO DOES WHAT?' ..... MR. BEN GRAVES
- 'CURRICULUM IMPLICATIONS' ..... MR. WILLIAM L. ENSIGN, FAIA
- 'YOU DON'T ALWAYS HAVE TO KNOCK OUT ALL THE WALLS' ..... MR. F. LAMAR KELSEY, FAIA
- LUNCH SPEAKERS ..... DR. JOHN L. CAMERON
  Knoxville
  MR. ROBERT L. BROWNE
  Jackson
  DR. BENJAMIN E. CARMICHAEL
  Nashville
- 'TRY IT ON FOR SIZE' ..... MR. RICHARD P. MILLER, AIA
- ENCOUNTER SESSIONS

  'MODERNIZING THE CURRICULUM' ..... DR. JERRY BELLON

'MAINTENANCE MANAGEMENT FOR MODERNIZATION' ..... MR. JOE GARNER

'WHAT'S NEW FOR MODERNIZATION' ....DR. CHARLES E. TROTTER, JR.

'WHERE DO WE GO FROM HERE? ..... MR. BRUCE JORDAN
Knoxville
MR. JACK TAYLOR
Jackson
DR. M. WILLIAM KONNERT, JR.
Nashville

Sketchbook
Summary by...

William L. Ensign, FAIA.

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+ ....
MANY EDUCATORS, ARCHITECTS, ENGINEERS,
ADMINISTRATORS, INDUSTRY REPRESENTATIVES,
BOARD MEMBERS, STUDENTS & OTHERS
FROM MANY PARTS OF TENNESSEE

'ORGANIZATION OF REMODELING: WHO DOES WHAT?'

– BEN GRAVES
EDUCATIONAL FACILITIES LABORATORIES
CHICAGO, ILLINOIS.....

IT HAD BEEN ESTIMATED THAT THERE WAS A $5 BILLION DOLLAR CONSTRUCTION MARKET (annually) IN SCHOOL MODERNIZATION

..... but this may have to be revised UPWARD ↑↑.... since industry estimates $5 billion for A/C ALONE!!

..... but do we

MODERNIZE
OR
REPLACE ?

A LOOK AT
FIVE STEPS
IN THE DECISION
PROCESS

STEP I

.....The Initiative for change can originate in -- THE BOARD, SUPERINTENDENT'S OFFICE or THE COMMUNITY

=

STEP II.... TECHNICAL SURVEY

.... in this step the ARCHITECT is the leader

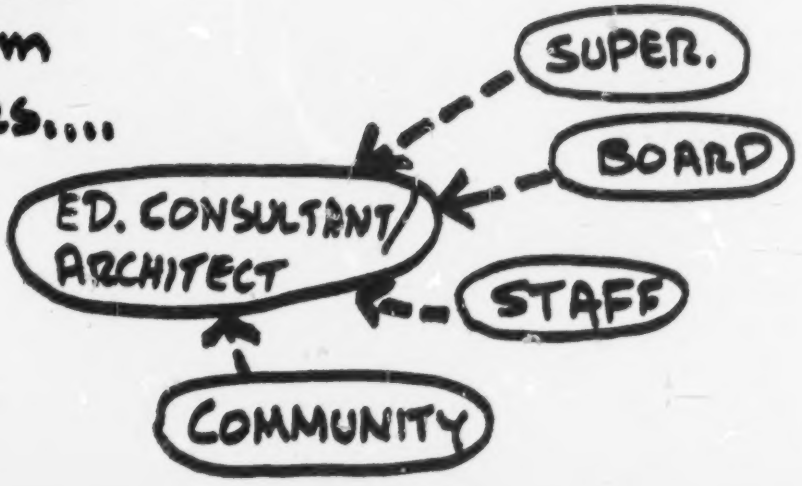
OLD SCHOOL

The initial TECHNICAL SURVEY need not be an elaborate or EXPENSIVE one.....
but can indicate

STEP III..... EDUCATIONAL SURVEY

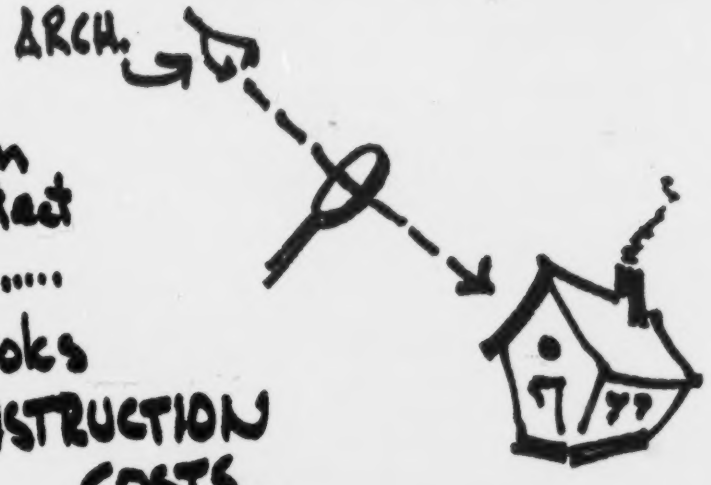
..... in this step the ED. CONSULTANT is the leader...

..... he receives input from all sources....

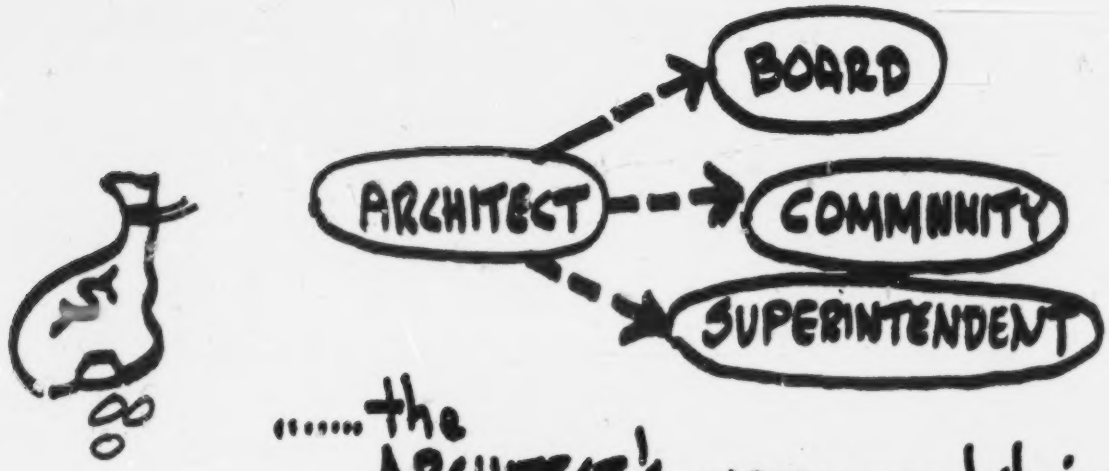


..... If the EDUCATIONAL NEED is obviously at odds with the EXISTING FACILITY.... then a decision can be made to STOP!

STEP IV ..... FINANCIAL SURVEY



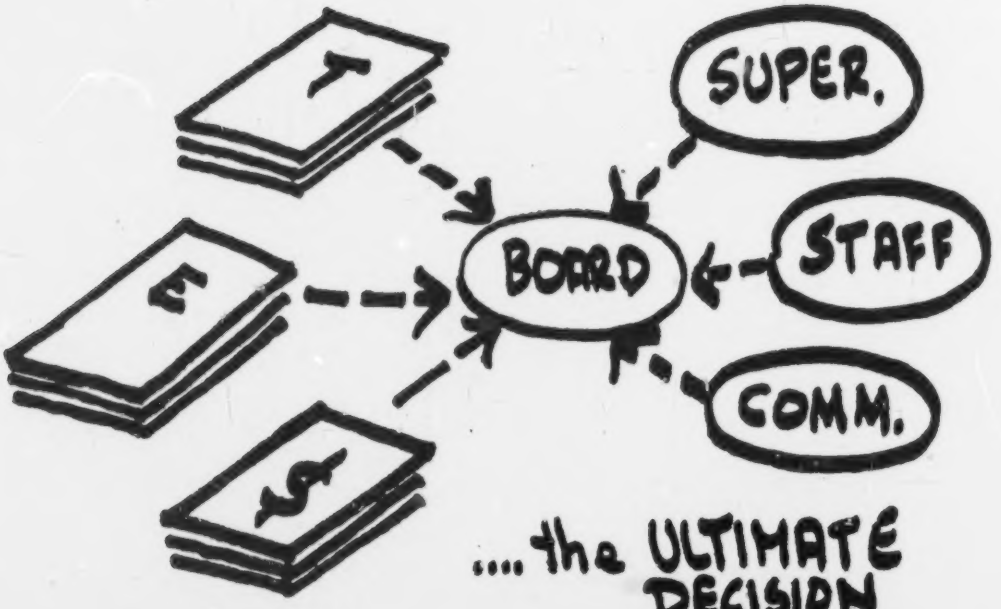
..... once again the architect is LEADER ..... as he looks at CONSTRUCTION COSTS, TIME SCHEDULES, BUSING, BLDG LIFE EXPECTANCIES, OPERATING EXPENSES ETC.



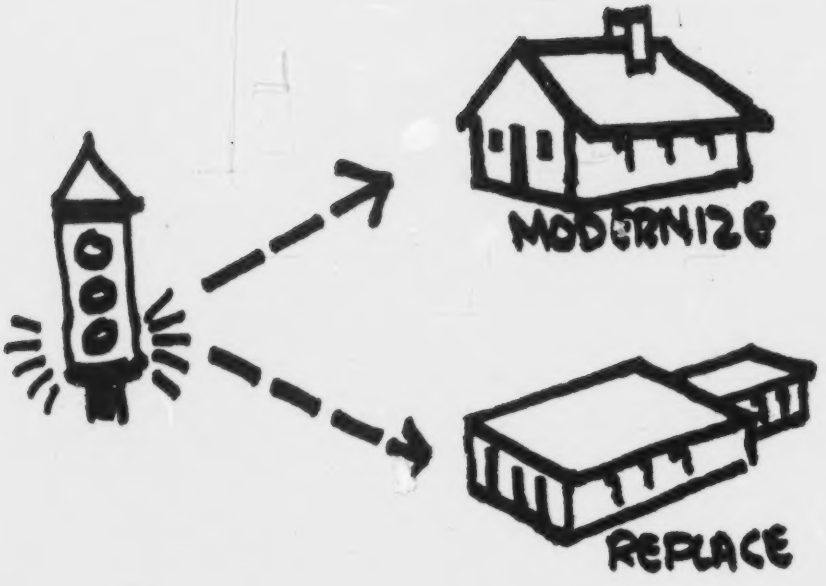
.....the ARCHITECT's recommendations based on his financial JUDGEMENT might take one of THREE forms....

1. REMODEL..... with the minimum of new construction—
2. REMODEL.... with additions as necessary to make the combined facility adequate for the program—
3. REPLACE .... completely abandon the existing building for its present use—

STEP V. — THE FINAL DECISION

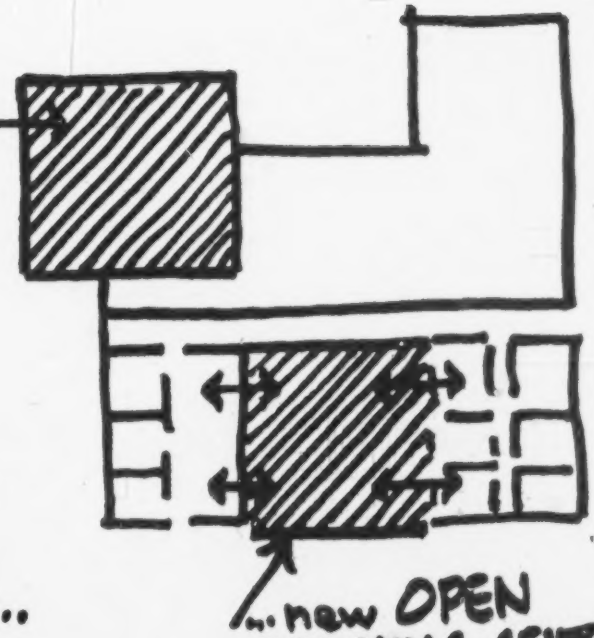


.... the ULTIMATE DECISION MUST LIE WITH THE BD. OF ED



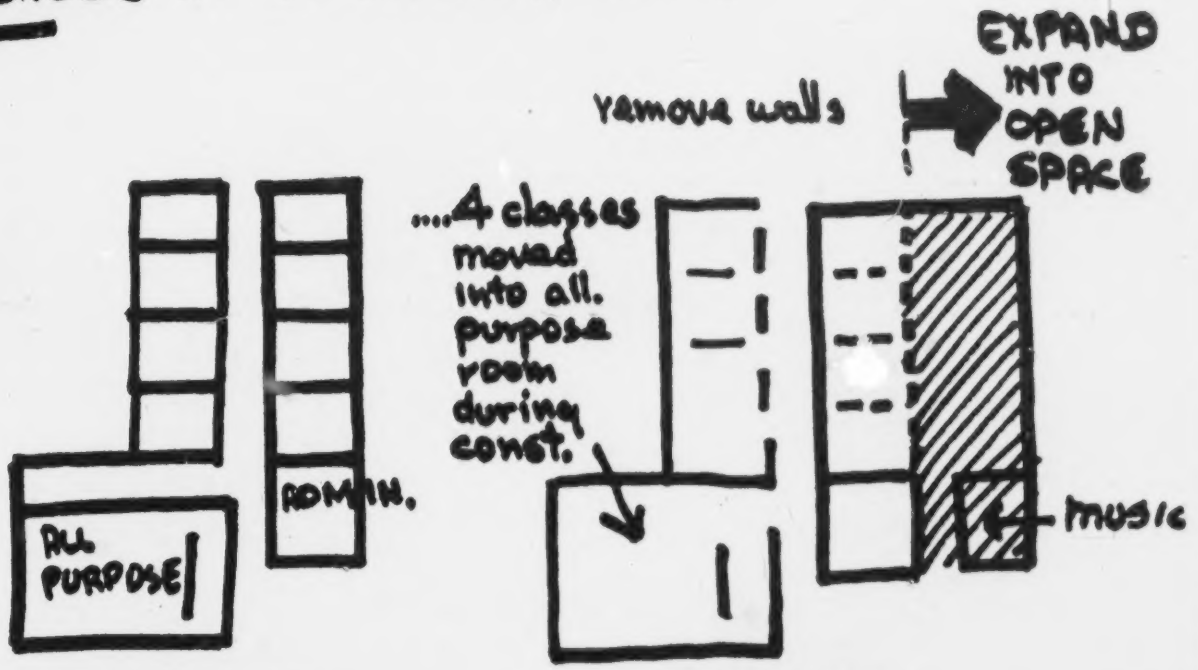
..... after all the facts are in ....,
"THE GRAVES FORMULA"..... modernization should be questioned if $cost is > 50% replacement COST!

EXAMPLES



ELEM. SCHOOL IN WASHINGTON, D.C. —
....tight SITE -
SOLUTION - EXCITING OPEN SPACE IN 'U' SHAPED COURT...
...skillful blending of new ARCHITECTURE with OLD

ELEM. SCHOOL IN E. GRANBY, CONN.



BEFORE ....AFTER

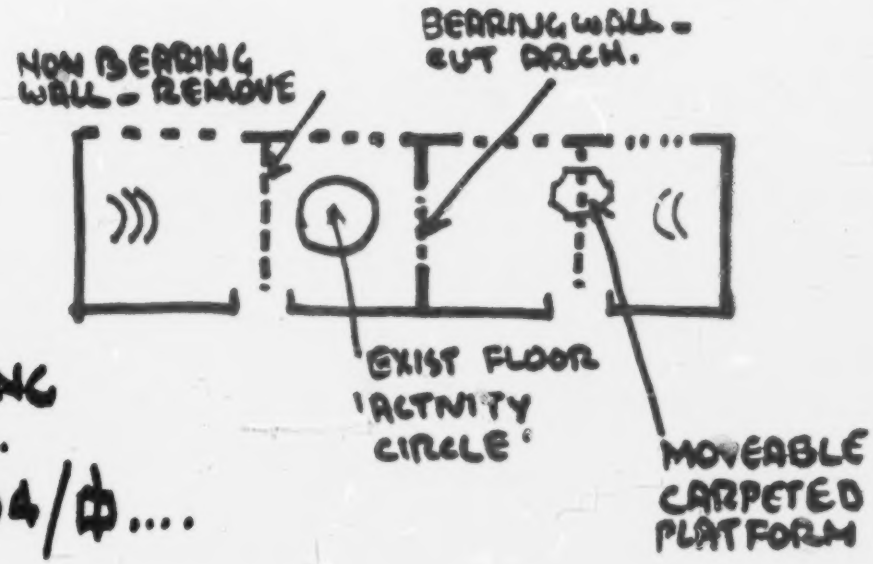
EXAMPLE-
EUGENE FIELD SCHOOL - CHICAGO

4 CLASSROOMS IN ROW.... with bolted down DESKS!

3,700 ¢ AREA....

..COST OF REMODELING WAS $10,500.....
OR $2.84/¢....

... & it's now an

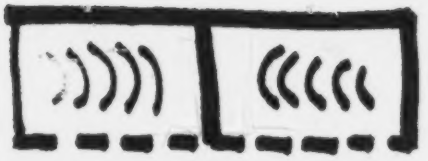


EXCITING ENVIRONMENT!

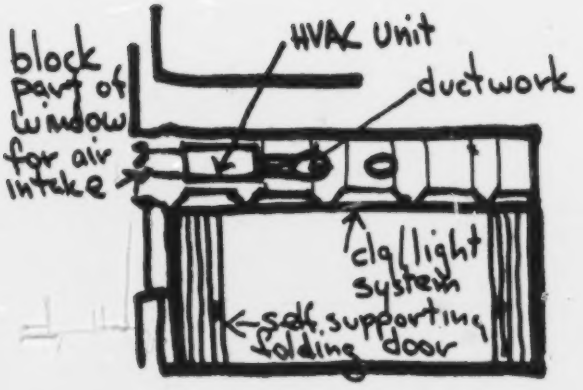
SYSTEMS — SOME ARE BEING DEVELOPED ..... for MODERNIZATION

A SAN FRANCISCO EXPERIMENTAL PROJECT.

....take a typical 2 classroom arrangement....



- & removing permanent wall — replace with self supporting folding doors —
  - o carpet
  - o climate control
  - o new ceiling / lighting suspended from exist ceiling.



A POSSIBLE OPTION —

'CURRICULUM IMPLICATIONS'...

WILLIAM L. ENSIGN, FAIA
McGOD FERRARA ENSIGN
WASHINGTON, D.C. —

..... Schools are caught in a money squeeze!

80% of school bldg. costs come from BONDS—

YET - In 1970 about 50% of bond elections were lost & $1.7 billion were lost for CAPITAL PROGRAMS....

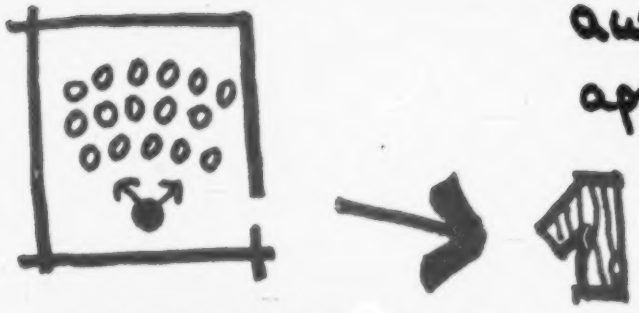
SOWHAT CAN WE DO ABOUT IT?

ONE OPTION — SCHOOL RENEWAL

.... existing school buildings constitute a tremendous national investment....

...AGE ITSELF NEED NOT BE THE SOLE INDICATOR OF OBSOLESCENCE— but in their present state they cannot meet the needs of TODAY'S EDUCATION....

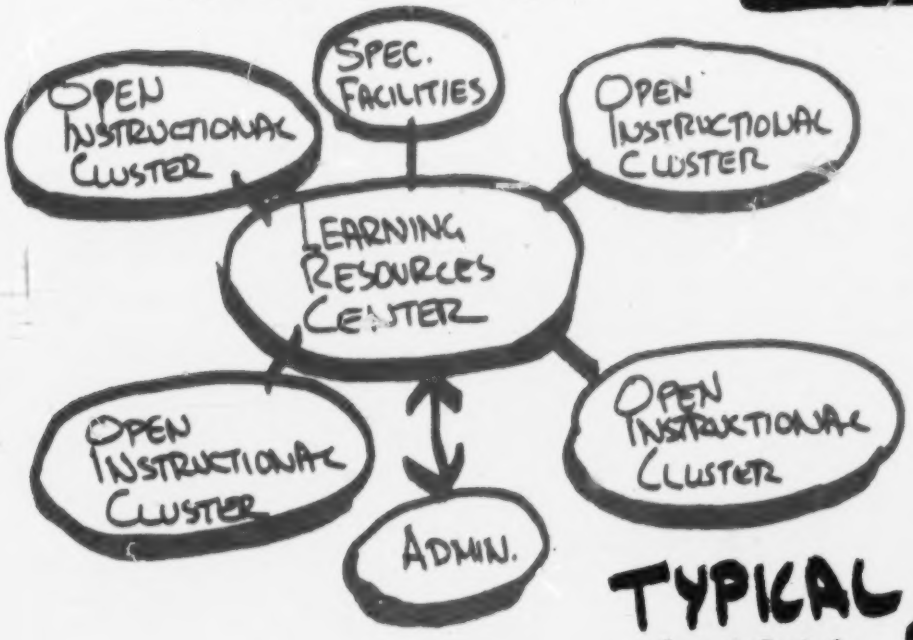
- BECAUSE EDUCATION HAS CHANGED —



away from a group approach to an individual approach —

- PARADOXICALLY

THE ARCHITECTURAL SOLUTION TO INDIVIDUALIZED LEARNING HAS BEEN OPEN SPACE — OR MORE ACCURATELY — **FLUID SPACE**



TYPICAL OPEN SCHOOL DIAGRAM

TODAY SCHOOLS HAVE—

....AN INFORMAL ATMOSPHERE ..... LOTS OF MEDIA...

....'SIT PITS' & OPEN INSTRUCTIONAL SPACES

....& SIMULATION DEVICES

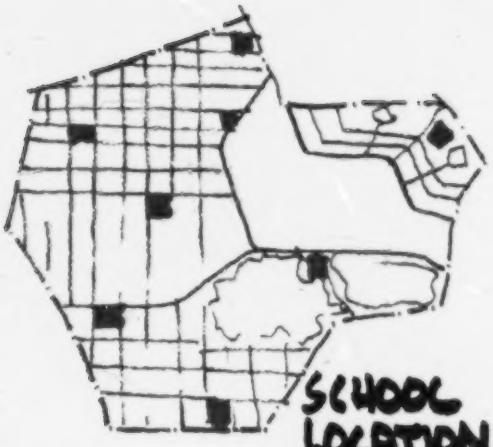
....PLANNING AREAS FOR TEACHERS...

....FRIENDLY DINING ROOMS...

IN SHORT
—THERE ARE HUMANIZING TRENDS AT WORK —
THE CHALLENGE IS TO BRING THESE NEW TRENDS INTO OLD BUILDINGS

.... MODERNIZATION SHOULD BE PART OF A SCHOOL DISTRICT'S APPROACH TO ITS TOTAL SCHOOL FACILITY NEEDS....

not a PIECE-MEAL REACTION TO A PARTICULAR SCHOOL'S DEFICIENCIES—



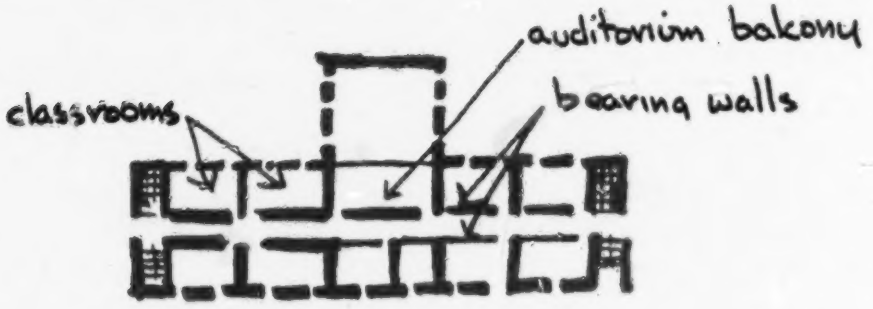
SCHOOL LOCATION PLAN

1ST STEP IN PROCESS—
SURVEY OF EXISTING CONDITIONS—

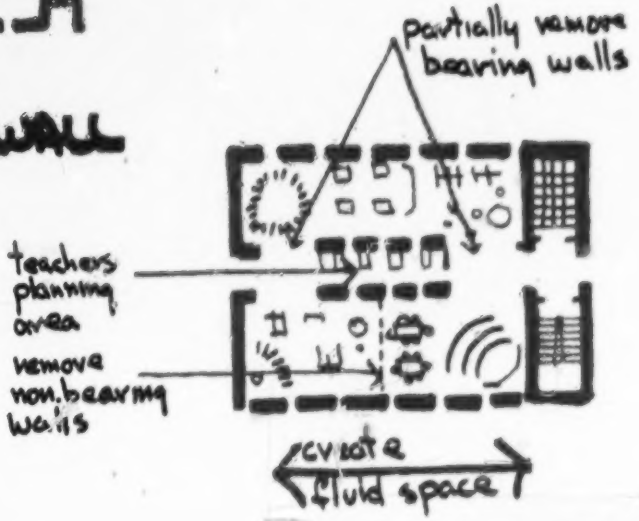
a. FOR 'BUILDING STANDARD' DEFICIENCIES....
...structural, mechanical, life safety, electrical, etc....

b. FOR 'LEARNING ENVIRONMENT' DEFICIENCIES..
.... more subjective judgements.. adequacy of spaces for learning, and for faculty & community..... and their appropriateness.

2ND STEP IS A STUDY OF OPTIONS....

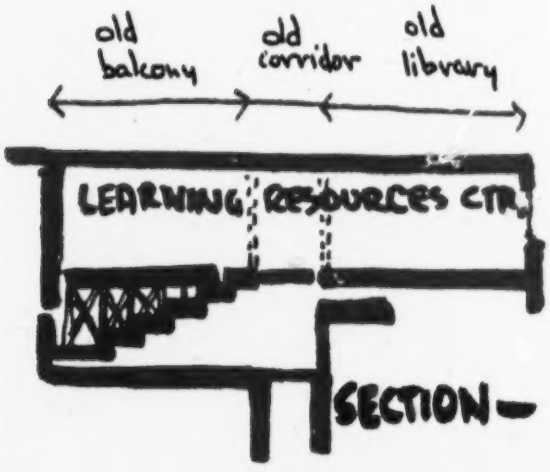


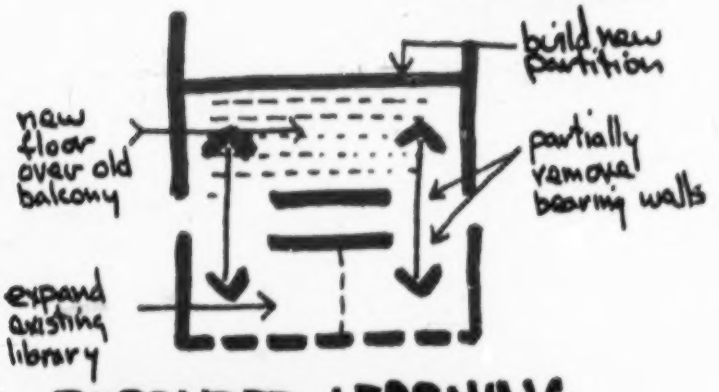
TYPICAL BEARING WALL SCHOOL (EXISTING)



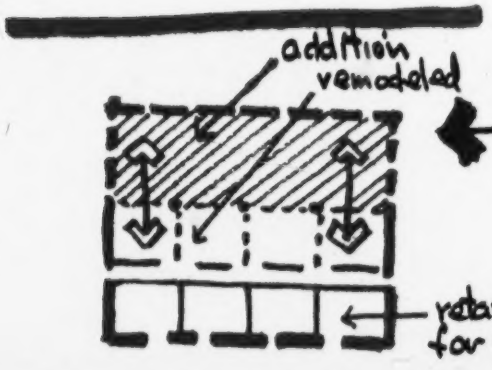
ONE SOLUTION-

FLUID SPACE INSTRUCTIONAL CLUSTER





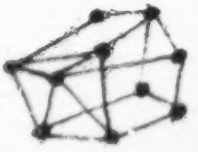
EXPANDED LEARNING RESOURCES CENTER-



IN NEWER NON BEARING WALL SCHOOLS ONE SOLUTION IS TO ADD OUTWARDS-

OTHER OPTIONS FOR EDUCATION —

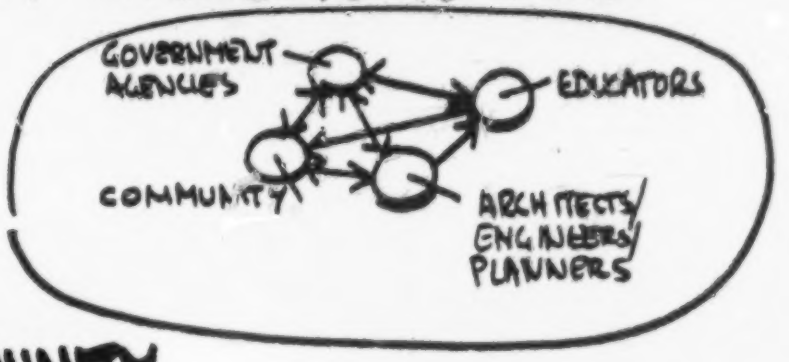
... do not separate education from other COMMUNITY services...



EDUCATION is one subsystem of TOTAL COMMUNITY NETWORK —

... BUT EDUCATION CAN BE CATALYST FOR DIVERSE COMMUNITY INTERESTS TO PLAN TOGETHER...

new planning techniques....



'THE WHOLE COMMUNITY IS A RESOURCE'

...it has MUSEUMS, LIBRARIES, POST OFFICES, STORES, GOV'T BLDG'S, WAREHOUSES, OFFICE BLDGS, BARNS, OPEN SPACE.... ETC.

... ALL THESE CAN BE USED OR <u>SHARED</u> FOR EDUCATION —

... 'FOUND SPACE'... space not ordinarily used for education might help solve in some cases our facility needs...

EXAMPLES

BARNS INTO...
classrooms, libraries, bowling alleys.....

HOUSES INTO..
Schools, Administration Centers, Student centers...

DEPARTMENT STORES INTO...
Junior colleges, schools,...

WAREHOUSES INTO...
day care centers, schools.....

SUPERMARKETS INTO
street academies, early childhood centers.....

...IN MANY OF THESE INSTANCES THE INTERIOR ENVIRONMENT IS CREATED BY BUILDING WITHIN THE OUTER SHELL..... FURNITURE IS ESPECIALLY IMPORTANT IN MODERNIZATION... WE NEED BETTER AND BETTER... INFLATABLES, DISPOSABLES, BEANBAGS..... WE NEED 'KITS OF PARTS' FOR BUILDING SPACES.....

OUR TRUE CLIENTS ARE THE CHILDREN— WE MUST BRING TO THIER BUILDINGS... new or old... THE VITALITY OF A GOOD SHOPPING MALL

'YOU DON'T ALWAYS HAVE TO KNOCK OUT ALL THE WALLS'....

F. LAMAR KELSEY, FAIA
LAMAR KELSEY & ASSOCIATES
COLORADO SPRINGS, COLORADO—

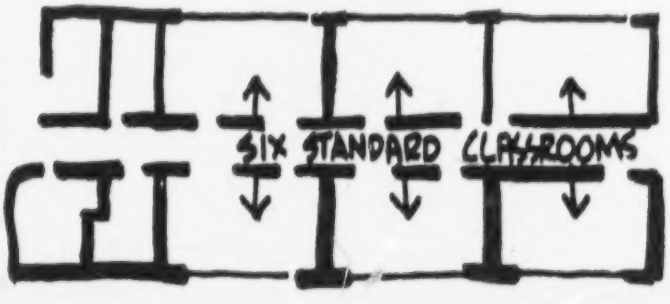
..... Schools built prior to WWII should be looked at very CAREFULLY before a decision is made to MODERNIZE..... deficiencies in MECHANICAL & ELECTRICAL systems & CODE VIOLATIONS are EXPENSIVE TO CORRECT—

THE TRAGIC GENERATION OF SCHOOLS ARE THOSE BUILT FROM THE 40's TO THE 70's!
..... they had the same old plan... yet they are sound.... & they are caught in the era of ACCELERATED EDUCATIONAL CHANGE—

TODAY— CHANGE IS THE NAME OF THE GAME...
& our bldgs. must be DYNAMIC to accept it—

EXAMPLE - MONTVIEW ELEMENTARY SCHOOL

1. EXISTING PLAN



ESTABLISH FIVE COMPLETELY OPEN INSTRUCTIONAL AREAS

2. PROGRAM DESIRES

STANDARD CLASSROOM. AS EXISTS

REMOVE ALL EXISTING PARTITIONS

---

5. TOTAL OPENNESS POSSIBILITY.... could be done, however VERY EXPENSIVE / would require removal of existing loadbearing walls.... shoring of ROOF structure for placement of NEW BEAMS.... removal of existing floor to pour NEW FOOTINGS for NEW COLUMNS...

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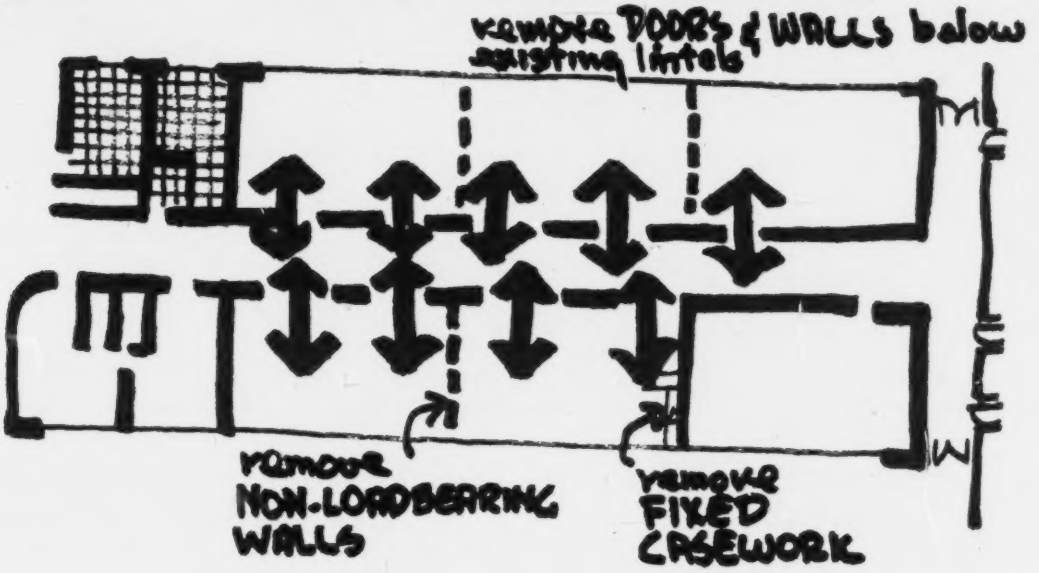
4. PARTIAL OPENNESS

a much more easily accomplished "OPENNESS" is available with a high degree of FLEXIBILITY.....

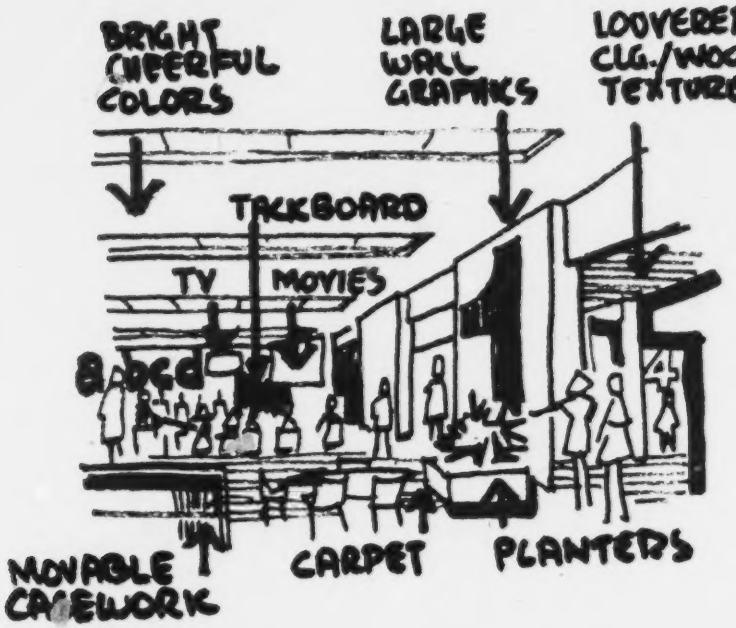


5. CARPETING – a soft layer of CARPETING throughout the REMODELED AREA will add visually to the EXPERIENCE OF SPATIAL OPENNESS as well as adding to the space FUNCTIONALLY and AESTHETICALLY –

6. SPACE USE – FLEXIBLE INSTRUCTIONAL SPACE would be shaped by movable casework used as space dividers – ISLAND WORK CENTERS would contain sinks/clocks/speakers & base cabinet storage –

7. ARCHITECTURAL TREATMENTS – ARCHITECTURAL TREATMENTS / ceiling & lighting patterns, wall graphics, furniture, color, etc. help make a vital teaching-environment.... Special lower ceiling of rich wood texture appropriate for SPECIAL USE AREA –

8. ACADEMIC ENVIRONMENT

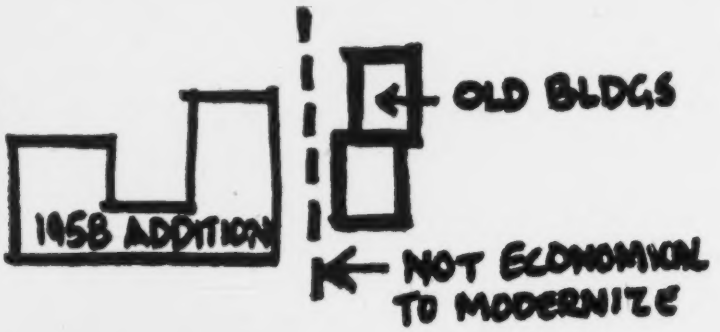


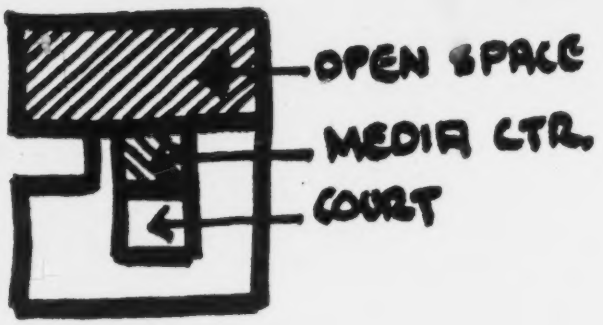
EXAMPLE:

OLD SCHOOL WITH FAIRLY RECENT 'STANDARD CLASSROOM' ADDITION—

ENROLLMENT GROWTH HELPED SOLUTION—

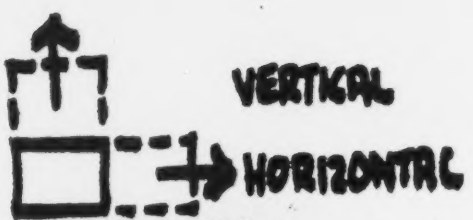
- ABANDON OLD PART.
- BUILD MAJOR OPEN SPACE ADDITION
- CENTRALIZE MEDIA CENTER
- MINOR MODERNIZATION IN EXIST. SCHOOL



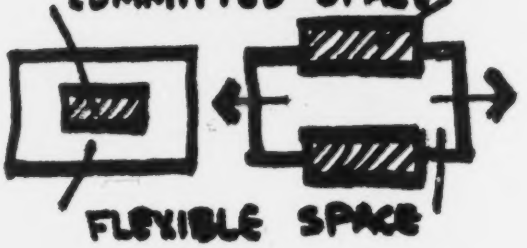


CONCEPTS OF FLEXIBILITY:

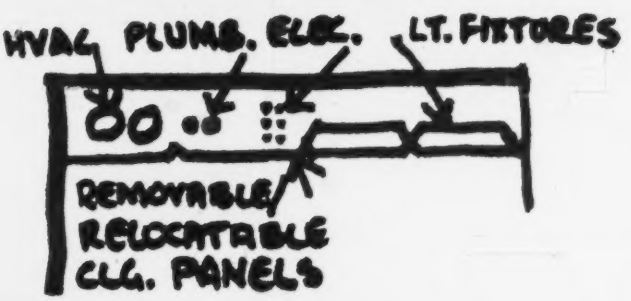
1. Flexibility of VOLUME



2. Flexibility of SPACE



3. Flexibility of ACCESS TO SYSTEMS



..... MAKE COMMITTED SPACE GOOD STRONG ARCHITECTURE.... AND THEN BE NON DRAMATIC IN FLEXIBLE SPACES....

CONCEPT-

NEIGHBORHOOD GROWTH STAGES

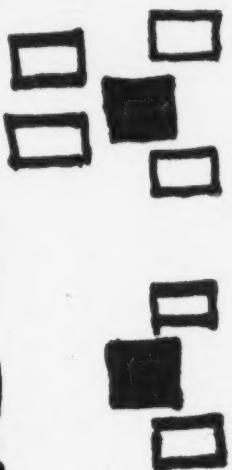
YOUTH (few kids) → ADULTHOOD (lots of kids) → MIDDLE AGE (few kids)

WHY NOT.....

....build permanent CORE

....later ADD RELOCATABLES AS REQUIRED

....then REMOVE AS NEEDS DIMINISH!

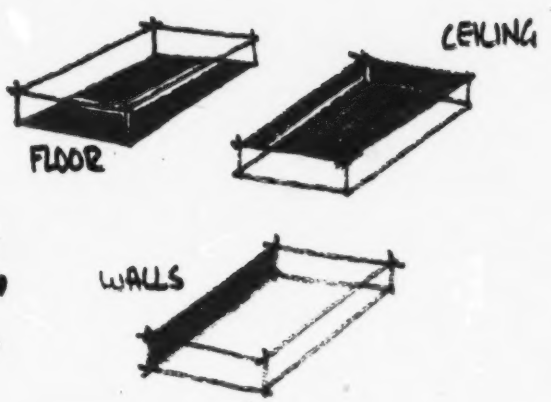


(Need better quality school relocatables... INDUSTRY HAS THEM NOW!)

CONCEPT -

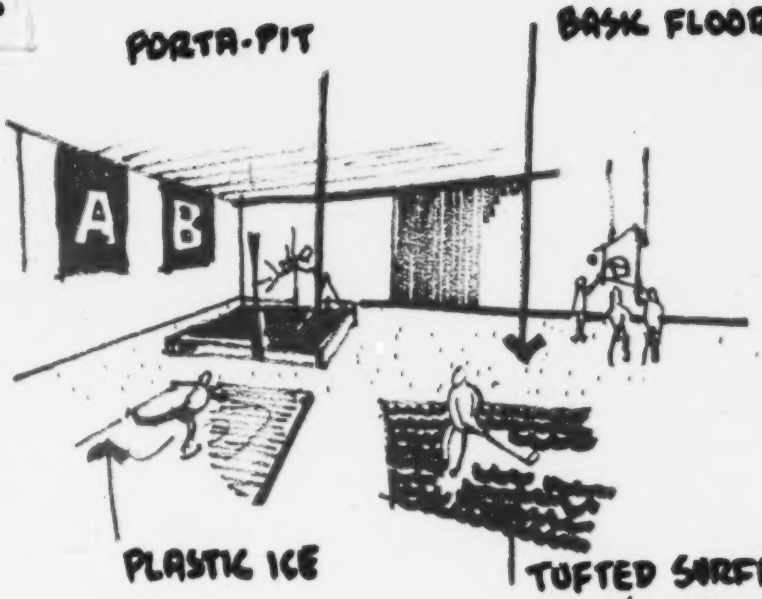
AN ACRE OF JONE

....LETS BEGIN WITH A BASIC BOX OF BUILDING AREA.... IT HAS A FLOOR, CEILING AND WALLS....

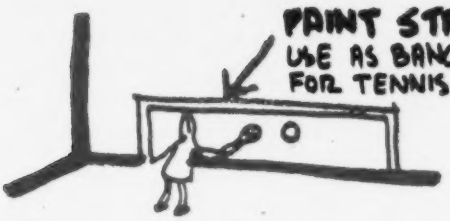


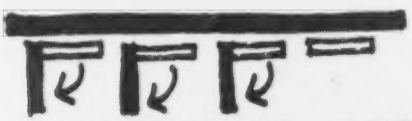
THE FLOOR -

VARIETY OF SURFACES -
SPECIAL SURFACES UNROLL, ARE ASSEMBLED OR DROP FROM CEILING.



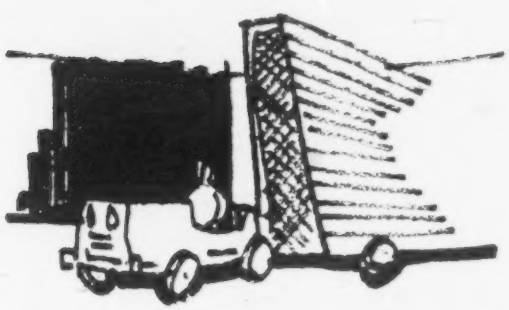
THE WALLS -





PIVOT WALLS - INCREASE WALL AREA, 3-WALL GAMES CAN BE PLAYED, THEY CAN STORE THINGS, BE WRITING SURFACES... OR BULETIN BOARDS.

.... WALLS CAN BE USED AS PROJECTION SURFACES....
..... PEGBOARD WALLS CAN BE USED FOR CLIMBING



BLEACHERS - MOTORIZED rolling BLEACHERS MIGHT BECOME ADDITIONAL WALL SURFACES OR ROOM DIVIDERS. THEY CAN MOVE OUTSIDE - THEIR BACKS CAN BE USED AS BANGBOARDS... OR AS DIVIDERS.

THE CEILING -

... THE GREATEST UNDISCOVERED STORAGE SPACE....

... USING MOTORIZED PULLEYS & STORAGE PLATFORMS COULD STORE SPECIAL FLOOR SURFACES, WRESTLING MATS, GYM EQUIPMENT.... COULD BECOME 'PEOPLE PLATFORMS'

.... WHY NOT DROP NETS FROM THE CEILING TO FORM BARRIERS TO ABSORB THE IMPACT OF GOLF BALLS, BASEBALLS & ARROWS

THE SYSTEMS -

... PRODUCE A WINTER SUNTAN FROM THE LIGHTING SYSTEM...

.... ZONE THE SOUND SYSTEM TO PERMIT TWO-WAY VOICE COMMUNICATION...

... HAVE INSTANT REPLAY VIDEO TAPE TV....

... GRAPH-CHECK CAMERAS ARE GREAT FOR COACHING....

SO HERE IS THE

ACRE OF JUNE -

A BUSY, FUN PLACE

'TRY IT ON FOR SIZE'

– RICHARD P. MILLER, AIA
K/M ASSOCIATES
ELKHART, INDIANA

EXAMPLE

BROOKSTON ELEMENTARY SCHOOL
FRONTIER SCHOOL DISTRICT, INDIANA
..... no option but to remodel – not enough $$.

EFL GRANT OF $5,000

provided for

.... CARPET RENTAL

.... PURCHASE OF A FEW LIGHT FIXTURES

.... SHIPMENT OF FURNITURE

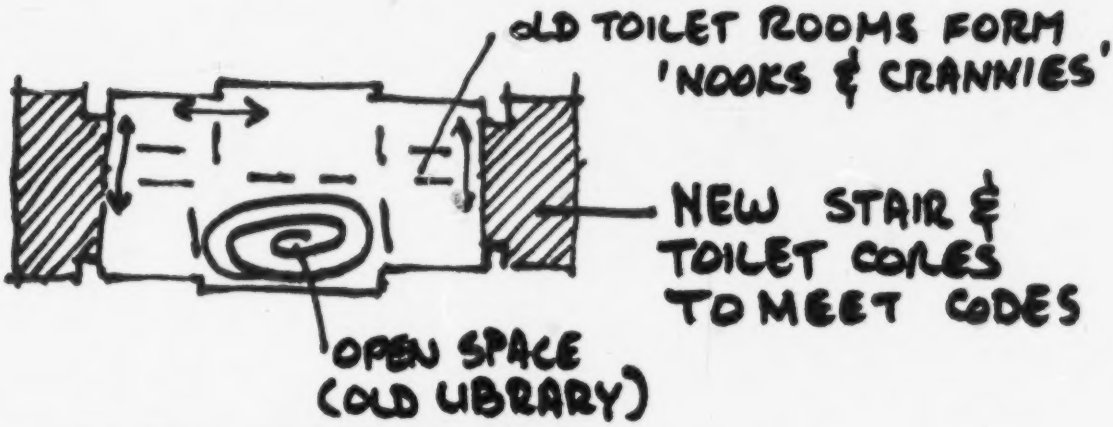
later ..... ED. CONSULTANT & MEDIA SPECIALIST FOR TEAM APPROACH SESSIONS ——

but.... FACULTY COULD EXPERIMENT AS THEY WENT ALONG WITHOUT PRIOR COMMITMENT

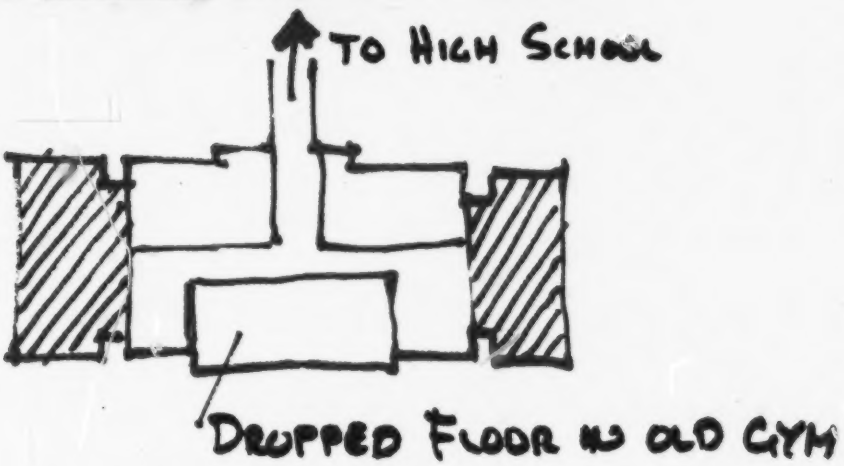
BLDG PLAN - TYPICAL 1914 FORMER H.S.

2 AREAS OF OPENESS

1. Old H.S. Library on 3rd floor -
2. Old Gym on lowest floor -



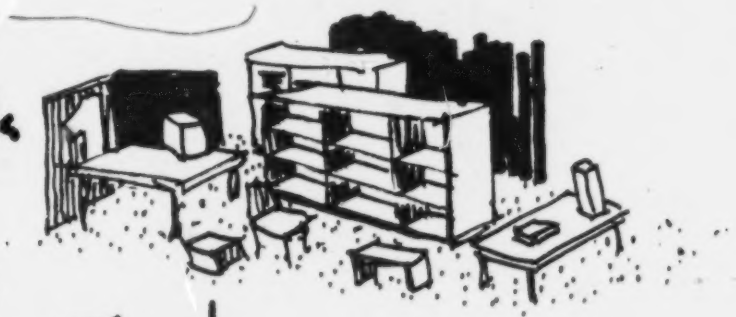
THIRD FLOOR PLAN



BASEMENT

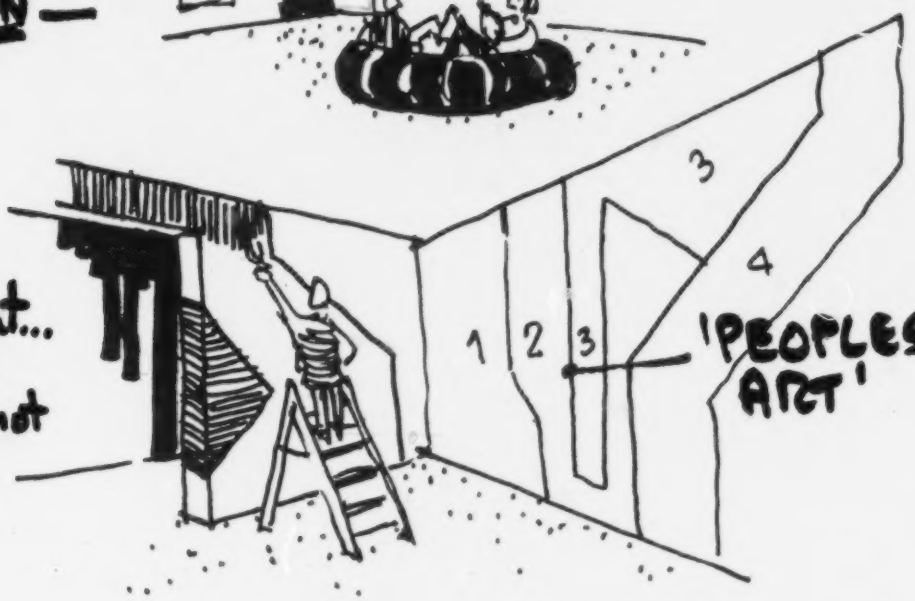
IDEAS

... buy an inventory of furniture... PILE IT BY THE DOOR... let kids and teachers select what they NEED!



.... do it yourself FURNITURE... cheap... disposable... and FUN —

... paint walls white... then turn walls over to art department... kids paint by the numbers... (why not just let them paint creatively ??!?)



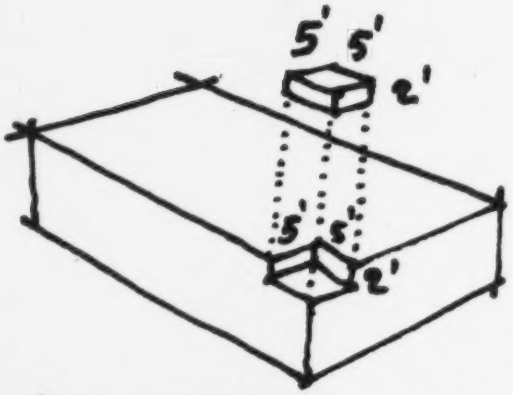
.... soften walls in corners... ACOUSTICALLY & VISUALLY with inexpensive 'SOUND PANELS'

.... carpet stairs & USE THEM FOR SITTING

SYSTEMS....

— can be utilized economically for additions down to ABOUT 10,000 ☐

K/M MODULE
5'x5'x2' blocks



SCSD is basis for K/M schools

COMPONENTS ARE

- STRUCTURE
- MECHANICAL (HVAC)
- CEILING/LIGHTING
- PARTITIONS
- EXTERIOR ENCLOSURE

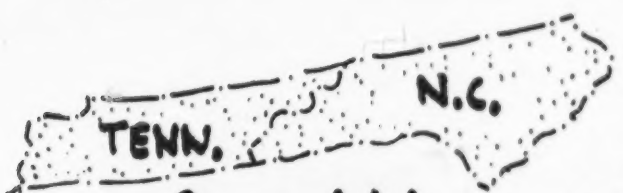
All Systems must INTERFACE & fit together like bldg blocks... systems construction allows faculty to modify building as they experiment.... they can TRY IT ON FOR SIZE!

Tuesday Lunch - KNOXVILLE
march 13 -

Speaker:

DR. JOHN L. CAMERON
Special Assistant to
Associate Commissioner
National Center for
Educational Technology —

N.C. & TENN — similar in many ways.....



- geographically...
- economically....
- culturally....

As neighbor must credit Tennessee's
contribution to School Facilities
Planning....

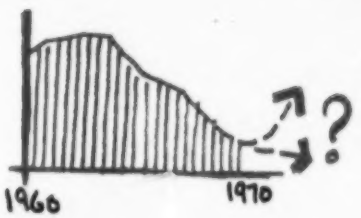
Peabody College... originator of Fac. Planning.
State Dept. of Education... leader in field.
.... more recently.... Univ. of Tennessee
School Planning
Laboratory....

TOPIC OF TALK

one major issue of education.....

FINANCE !

.... Bond Issues are FAILING ↓



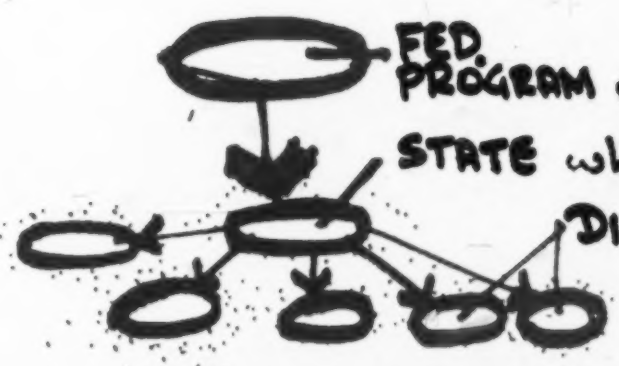
both for capital projects & for maintenance / operations...

..... School Systems are in debt & sometimes have to close schools → ↓

FURTHER →

The form of support for education is undergoing **CHANGE**

.... The Administration's program is devoted to 'EDUCATIONAL REVENUE SHARING'



..... There is an opportunity to put the decision making into the hands of state & local officials..... but

..... There is a need to 'reconfigurate' in order to devise educational programs which serve local needs!

RECENT COURT DECISIONS BEAR OUT THAT THE ULTIMATE RESPONSIBILITY FOR EQUALIZATION OF EDUCATION LIES WITH THE STATE

'How long will it be before these precedents are applied to the outlay of capital funds?'

.... SOME STATES ALREADY APPLY IT— HAWAII and more recently MARYLAND

..... under program of REVENUE SHARING it is possible (but not yet known) that major support for construction & rehabilitation will be available from the FEDERAL GOVERNMENT...

ALTERNATIVE
MEANS
OF
FINANCING —

SEEK OPTIONS
TO REDUCE COSTS

..... RECYCLING is one way
..... PARKWAY SCHOOL is another — but only for a small % —
..... 'STUDY AT HOME' — now in use for some HIGHER ED. programs will become feasible as TECHNOLOGY now available is put to use — ie. 2-way AV communication, linkage to satellites.....

THE CHALLENGES can only be met by the interchange of ideas..... which is the purpose of this CONFERENCE at

THE UNIVERSITY OF TENNESSEE

Wednesday Lunch - JACKSON
march 14 -

Speaker: ROBERT L. BROWNE AIA
GASSNER, NATHAN, BROWNE
ARCHITECTS - MEMPHIS, TENN.

STADIUM AT UNIVERSITY OF MINNESOTA

.... a king sized remodeling project!

2 ACRES OF ARTIFICIAL TURF

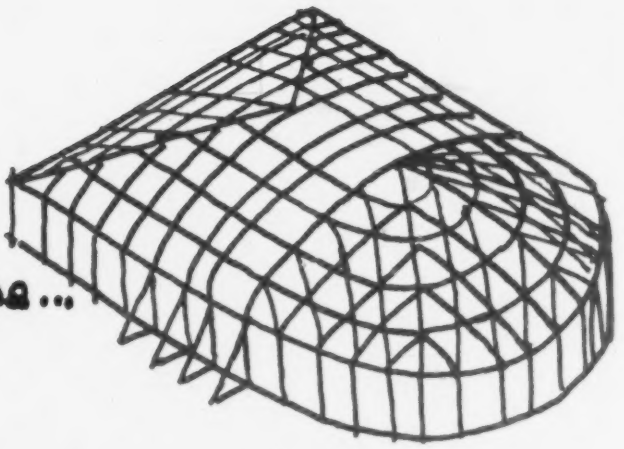
TASK... to create a year round facility for P.E.... inter murals... practice... & unscheduled recreation -

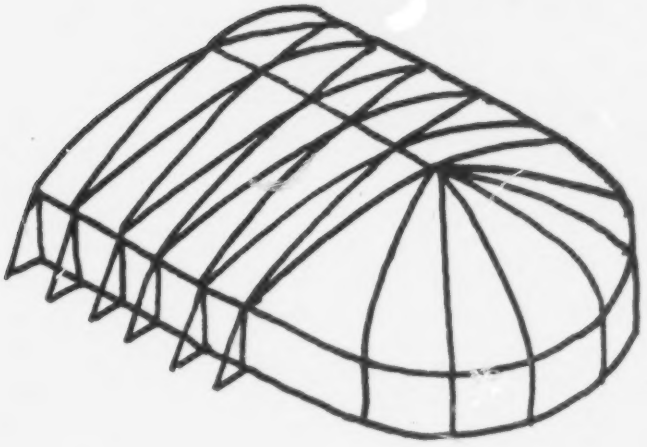
MAKING THE MOST OF MEMORIAL STADIUM....

.... what can be made of it...
.... evaluate it...
.... save it....
.... cover it....
.... BUT HOW?

AN EVALUATION OF 5 DIFFERENT METHODS—

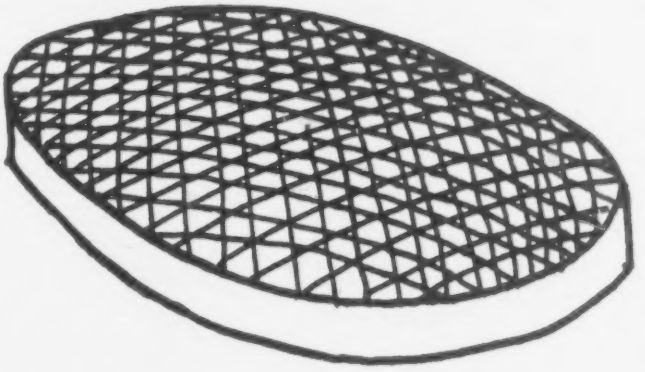
1. groin vault with half dome...

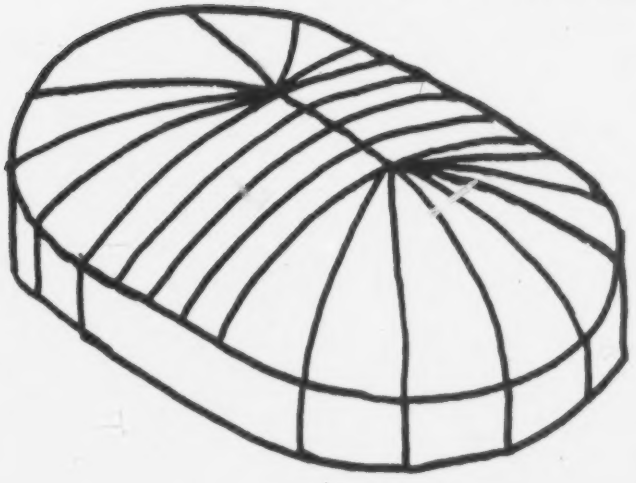




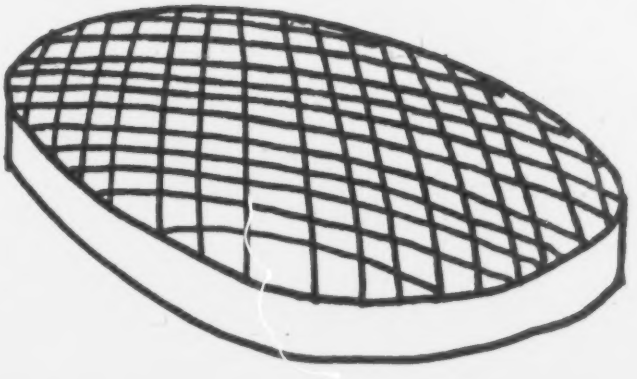
2. cross arch with half dome...

3. oval dome..





4. arch, radial dome



5. air structure

AIR SUPPORTED STRUCTURE SELECTED..... about $4,000,000 CHEAPER!

..... need for PERMANENT FABRIC

|| TEFLON COATED FIBERGLAS ||

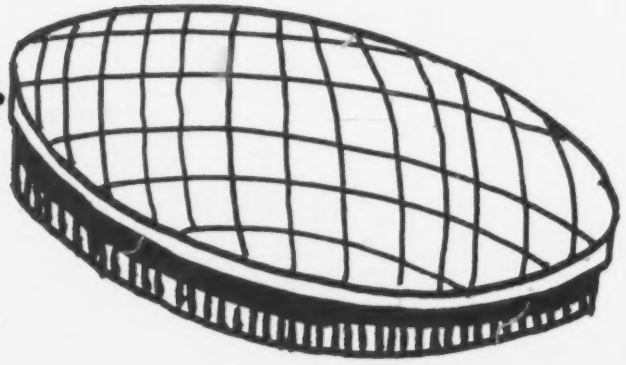
THEN.... inflate it.... slightly higher pressure than ground level psi. —

..... less than the pressure difference between the 7th floor of a bldg. & street level.

ALSO .... make it comfortable....
A/C & H & V.

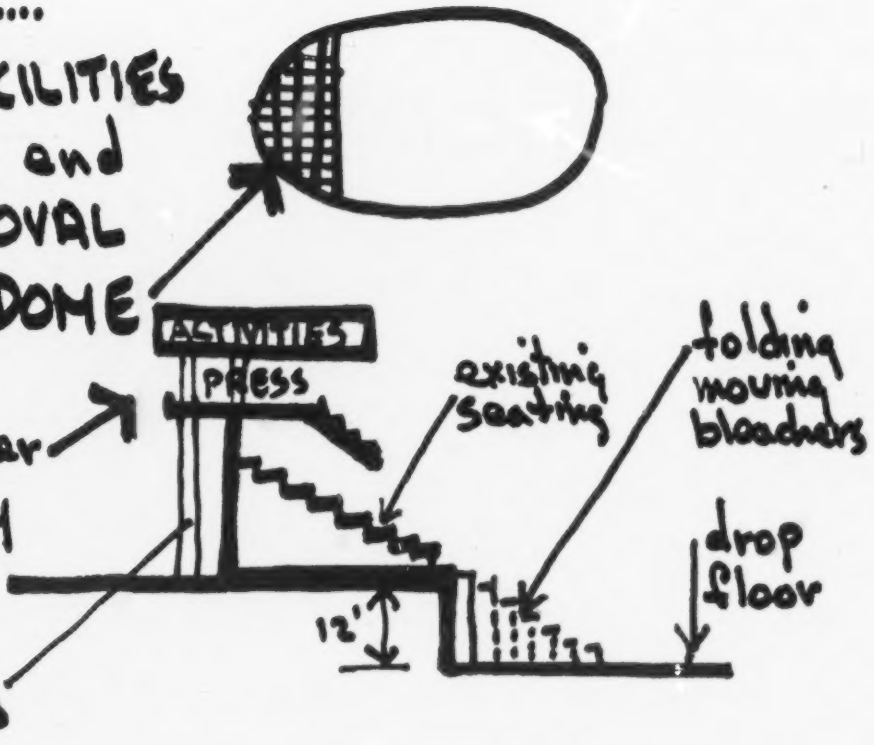
AND .... keep it up...

unlike regular domes → air supported structures need COMPRESSION ring rather than TENSION one



ALSO.... improve it....

.... add P.E. FACILITIES at squared end to fill out OVAL SHAPE OF DOME



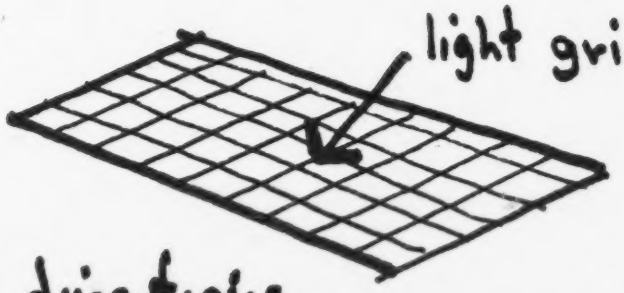
AND.... use it....

DESIGNED AS FLEXIBLE SPACE FOR MANY ACTIVITIES....

- seats 60,000 in normal configuration
  " 25,000 for basketball or hockey

- there is a 1/4 mile running track

o play surface of stadium laid out on 1' REFERENCE GRID.... in both directions.....



allows for RAPID CHANGE in function with the use of ADHESIVE TAPE - tennis → volleyball → basketball → softball etc. ↙

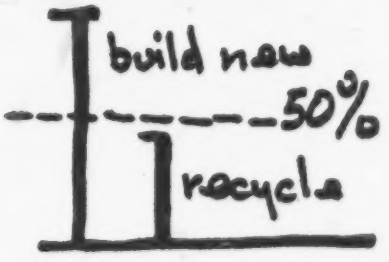
$

COST DATA —

$ 22,000,000 including $6,000,000 for NEW P.E. FACILITY —

THE ESTIMATED COST FOR AN ALL NEW STADIUM (on per seat estimate) = $47,000,000

UNDER THE 'GRAVES 50% FORMULA' it is justified !!



....BUT... WHY DO IT?

...it has served well for over 1/2 century... a campus symbol.... unique opportunity for the UNIVERSITY to pioneer... it would be the 1st all weather, multipurpose sports complex of this size housed in an economical air structure. //

Thursday Lunch ..... NASHVILLE
march 15

Speaker:
DR. BENJAMIN E. CARMICHAEL
Commissioner of Education
State of Tennessee

..... Early planning decisions are needed—
before CONSTRUCTION— but too often
they are too late— AND THE BUILDING
SHAPES THE PROGRAM.

..... In TENNESSEE the time for some
CRITICAL DECISIONS are upon us —
& there are no ONE SIDED
EASY SOLUTIONS —

..... Major questions facing the TENN.
LEGISLATURE involve providing
NEW EDUCATIONAL SERVICES

..... Moving closer than ever towards
STATE support of these SERVICES—
for instance,
there is strong sentiment for STATE
SUPPORT of the
VOCATIONAL ED. PROGRAM

YET- some Counties are making decisions NOW which are at VARIANCE with this SENTIMENT-

.... IN VOCATIONAL EDUCATION there might be FOUR ALTERNATIVES for providing FACILITIES

ALTERNATIVES

1. In COUNTIES with ONE HIGH SCHOOL VOCATIONAL FACILITIES COULD BE ADDED TO THAT SCHOOL —
2. If AREA VOCATIONAL SCHOOLS are in the right LOCATION ADDITIONS could be made to them-
3. In COUNTIES with TWO or MORE HIGH SCHOOLS an independant VO-TECH CENTER, WITH POST H.S. CAPABILITIES could be established.
4. In some instances TWO or MORE counties could go TOGETHER and establish regional VOCATIONAL CENTERS

In TENNESSEE
there is a NEED for a
COMPREHENSIVE
PROGRAM FOR
THE HANDICAPPED —

..... ALL children will be served as
an integrated part of the SCHOOL
SYSTEM —

..... the isolation of certain categories
of children (ie at a SCHOOL FOR
THE DEAF) is in CONFLICT with
this PHILOSOPHY —

BUT THERE IS
NO SIMPLE
ANSWER —

- HOWEVER.

The implications for SCHOOL
FACILITIES DESIGN are great —
and it means that we must move up
from the limited scope of planning a
SCHOOLHOUSE or SCHOOLROOMS as
such to the HIGHER levels of
broad regional planning for
EDUCATIONAL FACILITIES

ENCOUNTER SESSION –
'MODERNIZING THE CURRICULUM'

... Dr. JERRY BELLON, HEAD
Department of Curriculum & Instruction
College of Education
The University of Tennessee, Knoxville

A FEW ISSUES...

.... Human Renewal more difficult than School Renewal

.... Too often we wait for ED. SURVEY until it's too LATE!! – after bldgs are complete...

.... OPEN SPACE is only MEANS to END – 'THE LEARNING OUTCOME'

..... BUILD-IN FLEXIBILITY!

.... KEY is LEADERSHIP RENEWAL

REACTION –

WE IN FIELD HAVE BEEN INCLINED TO BELIEVE THERE IS ONLY 1 WAY –

.... BUT WE MUST SEARCH FOR ALTERNATIVES //

– but OPEN SPACE is just as inflexible as EGGCRATE – must be better environment than most schools – MOVE OUT OF SCHOOL!

.... FIXED PROGRAM BAD — MODULAR SCHEDULING INFLEXIBLE —

..... TOO PRONE FOR EDUCATORS' TO SWALLOW INNOVATION FOR ITS OWN SAKE — ie 'OPEN SPACE' SCHOOL .....

..... must CLARIFY — MEANS & ENDS —

... must ask WHY ??

"We lack EVALUATION" ——

EVALUATION must look at subjective matters like ATTITUDES, DROP OUT RATES — etc.

— 'MAJOR TROUBLE IS AT SECONDARY LEVEL' —

.... should we move vocational programs back into COMMUNITY?

— MOVE WITH PARENTS & STAFF SLOWLY INTO OPEN SPACE — MATTER OF ATTITUDE —

BUILDING IS ONLY A MEANS not an END.

.... REMOVE THE TEACHERS' FEAR ....

.... primary teachers KIDS ORIENTED
upper levels SUBJECT ORIENTED —

..... TEACHERS MUST HAVE
PLANNING TIME ..... TOGETHER!

DONT SHOEHORN teachers & schedule
into BEAUTIFUL facility .... if no PREPARATION

In Summary — KEEP ASKING WHY?

MANAGEMENT SYSTEM CONCEPTS

Operation & Maintenance of Physical Plant

Joe Garner
Management Consultant
Office of the President
University of Tennessee

EFFECTIVE MAINTENANCE & OPERATION IS SUPPORTED BY:

WORK PROGRAMS

- Work Activity Definitions
- Physical Plant Inventory
- Quality Standards
- Performance Standards
- Work Program Computation
- Projects Work Planning

PERFORMANCE BUDGETS

- Budget Preparation
- Resource Allocation

WORK SCHEDULES

Work Authorization
Work Objectives
Work Effectiveness

PERFORMANCE EVALUATIONS

- Periodic Summary Reports
- Annual Summary Reports

COMPARISON OF REPORTS WITH:

- Levels for evaluation of performance
- Future work guidance, scheduling, and continuing controlling works
- Identification of specific corrective action.

ENCOUNTER SESSION -

'WHAT'S NEW FOR MODERNIZATION'

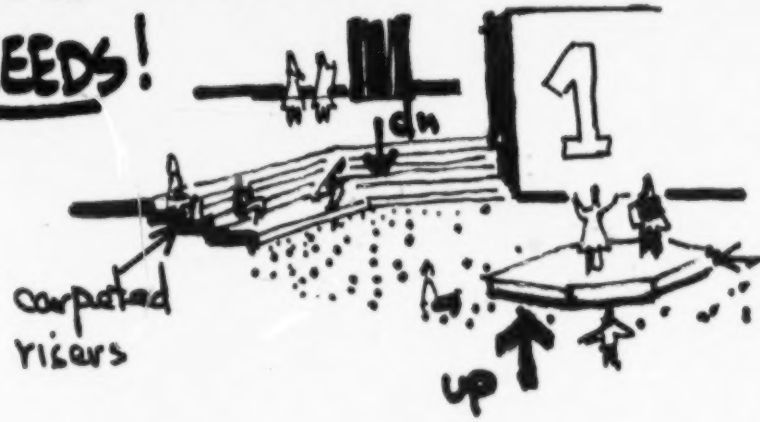
Dr. CHARLES E. TROTTER, JR.

.... Director, School Planning Laboratory
The University of Tennessee, Knoxville

— . — .

..... OLD SCHOOLS FOR NEW EDUCATION!

NEEDS!



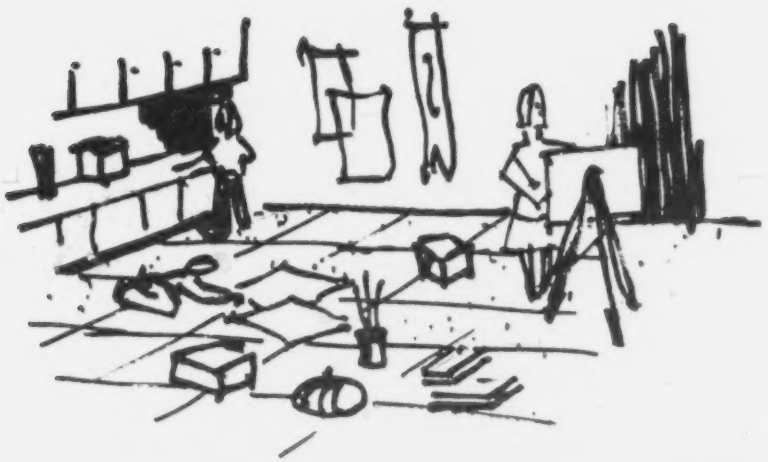
....a variety of levels.

... an informal atmosphere

'HAPPY CHILDREN are going to LEARN in spite of everything ELSE!'

... gardens are IMPORTANT in urban schools —

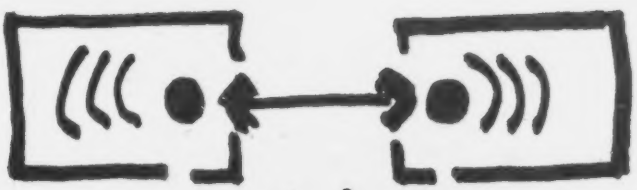
... KIDS need SPACE to be MESSY —



... PROVIDE APPROPRIATE AREAS FOR KIDS to LEARN AT INDEPENDENT SPEEDS —

—.

FOR TEACHERS....



.... if they are <u>isolated</u> from each other

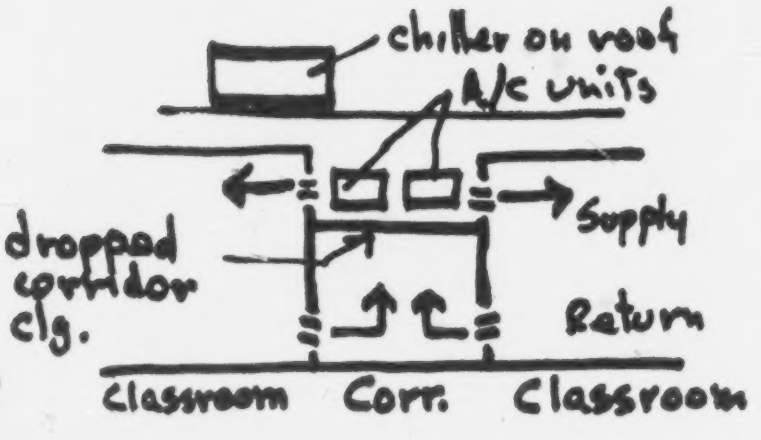
HOW CAN THEY BE EXPECTED TO WORK TOGETHER?

.... SCHOOLS should be 'PEOPLE PLACES'.

like SHOPPING CENTERS

... NEED COMFORT

... one way in modernization →



... FURNITURE IS IMPORTANT

... carrels ... bean bags ... comfortable chairs ... & storage

... AND THE USE OF LOTS OF COLOR!
let's get away from acres of SCHOOLROOM GREEN!

.... NEED GOOD ACOUSTICS ...
FLOOR SURFACES ...
TEXTURE ...

..... WE MUST
REALIZE THAT THE
CHEAPEST DOES NOT MEAN
THE BEST—

.... A RICH MIX OF PROGRAMS
& SPACES helps our
ATTITUDES .... and THAT is IMPORTANT!

The SCHOOL PLANNING LABORATORY
starts by helping you LOOK at your
own school NEEDS

.... ONE ULTIMATE GOAL is to
IMPROVE THE SCHOOL
PLANNING PROCESS
in
TENNESSEE—.

SUMMATION .... march 15, NASHVILLE

'WHERE DO WE GO FROM HERE ?

Dr. M. William KONNERT, JR.
Superintendent
Tullahoma City Schools, Tennessee —

..... 'this has been ONE of the MORE PRODUCTIVE CONFERENCES.'

..... 'it is good to have OUTSIDE consultants come in .... IT CAN GIVE US CONFIDENCE.

..... WE CAN PICK UP SOME NEW IDEAS.... but more IMPORTANTLY it shows us that much that we are doing is BEING DONE ELSEWHERE IN THE COUNTRY....

..... my own SCHOOL SYSTEM is facing SIMILAR MODERNIZATION decisions — & the COST approximates 50% of REPLACEMENT.... & from the figures I heard TODAY, I have CONFIDENCE IT IS JUSTIFIED —

BUT....

there is a need for
IMPROVED COMMUNICATIONS—

..... It would be good to have
everyone in our COMMUNITIES
hear these presentations—
THEY WOULD THEN UNDERSTAND
THE PROBLEMS!

.... THE BETTER THE MEETING the
more CONFUSED you are
when you go away—
because you REALIZE
there is no ONE
SOLUTION but
it brings up a whole
RANGE OF OPTIONS

THE WORKS OF MANY
ARCHITECTS ARE ILLUSTRATED
IN THIS SKETCHBOOK...

SOME ARE KNOWN TO ME...
OTHERS ARE NOT.

TO BE FAIR TO ALL NO
CREDITS ARE GIVEN.

William L. Ensign

The School Planning Laboratory assists school systems, colleges and universities, local, state, and national agencies, industry, private planning and consulting firms, and foreign governments with FEASIBILITY STUDIES, CURRICULUM DEVELOPMENT, FACILITY PLANNING, RESEARCH, SITE PLANNING AND DEVELOPMENT, FINANCE, IN-SERVICE TRAINING, MAINTENANCE AND OPERATION, INFORMATION.

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